

10

15

20

25

30

1. An assemblage of parts suited for planishing a joint in a generally planar structure including first and second broad surfaces, said assemblage of parts comprising:

a planishing hammer including a body, a hammer head, and driving means coupled to said body and to said head, for driving said hammer head in a fore-and-aft direction in a reciprocating manner over a range of travel against said first broad surface of said planar structure;

a\first magnet;

first magnet support means coupled to said body and to said first magnet, for supporting said first magnet at a fore-aft location adjacent said range of travel, which position is laterally displaced from said head relative to said fore-aft direction, whereby the magnetic field of said first magnet penetrates said planar structure when said head is adjacent said first broad surface;

a second magnet adapted to be located on said second broad surface of said planar structure, and to be held in place against said second broad surface of said planar structure by said magnetic field of said first magnet; and

a backing piece adapted to be held against said second broad surface at said joint of said planar structure, at a location identified by the location of said second



magnet.

5

5

10

B

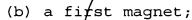
An assemblage of parts in accordance with claim 1, wherein said first, magnet support means comprises an elongated rod extending in said fore-and-aft direction, and including fore and aft ends, said first rod terminating at said fore end at said first magnet;

10

fore and aft ends.

affixing mans coupled to said body and said rod, said attixing means being affixed to said rod at a location lying between said

- An assemblage according to claim 3. 1, wherein said backing piece is a backing bar.
- An assemblage according to claim 4. 1, wherein said planar structure is such that a magnetic field applied to a first side produces a magnetic field on a second side thereof.
- A method for planishing an 5. elongated, visible joint in a generally planar structure including first and second broad surfaces, said method comprising the steps of: procuring a kit of parts including
- (a) a-planishing hamer including a body including a hammer head and driving means coupled to said body and said head, for driving said hammer héad in a for/e-and-aft direction in a reciprocating manner over a range of travel;



(c) first magnet support means coupled to said body and to said first magnet, for supporting said first magnet at a fore-aft location generally adjacent said range of travel, and laterally displaced from said head relative to said fore-aft direction;

(d) a second magnet; and (e) a backing piece;

said method further comprising the steps of on a first side of said planar structure adjacent said first broad surface, holding said hammer with said head against said joint on said first broad surface of said planar structure, with said first magnet at a location which is on a line orthogonal to the direction of elongation of said joint at the location of said head, whereby the magnetic field of said first magnet penetrates said planar structure to said second side thereof;

on a second side of said planar structure adjacent said second broad surface, placing said second magnet on said second surface within said magnetic field of said first magnet, whereby said second magnet is attracted toward said first magnet;

placing said backing piece on said second broad surface at a location on said elongated joint at which a line extending from said second magnet to said elongated joint joins said joint orthogonally.

40

15

20

25

30

35

10

5

5

10

6. A method according to claim 5, wherein said method further comprises, in said procuring step, the further step of:

selecting the strength of said first and second magnet in conjunction with at least the thickness of said structure as measured between said first and second broad surfaces, in such a manner that said second magnet is held against said second broad surface of said planar structure by said magnetic field of said first magnet.

7. A method according to claim 5, wherein said method further comprises the step of operating said hammer so that said head strikes said joint on said first surface of said structure.

8. A sensor arrangement for providing an indication in one dimension of the location of a hidden magnet, said sensor comprising:

a set of a plurality of magnetic sensors arrayed in a straight line in an array direction to form an array of magnetic sensors, each of which magnetic sensors is capable of responding to the strength of a magnetic field by adopting a particular value of an electrical characteristic;

an indicator arrangement; a source of electrical energy; and control means coupled to said

5

10



- magnetic sensors and to said indicator arrangement, for providing an indication of the position at which said magnetic field is greatest.
  - 9. A sensor arrangement according to claim 8, wherein said source of electrical energy includes a battery.
  - 10. A sensor arrangement according to claim 8, wherein said indicator arrangement comprises
  - a set including a plurality, no less in number than the number of said plurality of magnetic sensors, of electrically actuated indicators, said plurality of electrically actuated indicators being arrayed in a direction parallel to said array direction to form an array of indicators, whereby said electrically actuated indicators provides an indication of the location along said array of magnetic sensors at which the magnetic field is greatest.
  - 11. A sensor arrangement according to claim 10, wherein each of said electrically actuated indicators comprises a solid-state light emitter.
  - 12. A sensor a rangement according to claim 11, wherein each said solid-state light emitters comprises a light-emitting

10

15

diode.

- 13. A sensor arrangement according to claim 11, wherein said solid-state light emitters comprises a laser.
- 14. A pensor arrangement according to claim 8, wherein each of said magnetic sensors includes a Hall-effect device.
- 15. A sensor arrangement according to claim 8, wherein said magnetic sensors include Giant Magneto-Resistive sensor.

16. A sensor arrangement according to claim 8, wherein:

the number of said plurality of said magnetic sensors in said set of magnetic sensors exceeds two; and

said control means comprises an array of electrical conductors, said array of electrical conductors including individual ones of said electrical conductors which are associated only with an individual one of said magnetic sensors and with a corresponding associated one of said indicators, for allowing the flow of current through said one of said magnetic sensors and said associated one of said indicators, but not through others of said magnetic sensors and indicators.

17. A sensor arrangement according

to claim & wherein:

the number of said plurality of said magnetic sensors in said set of magnetic sensors is two; and

said control means comprises
processing means coupled to said source of
electrical energy, to said magnetic sensors,
and to said indicator arrangement, for
generating a signal indicative of the direction

10 generating a signal indicative of the dire in which said backing bar should be moved.